

AMENDED VERSION

IN THE CLAIMS:

1. (Currently Amended) An isolated or recombinant immunogenic polypeptide comprising a *Lawsonia spp.* hemolysin polypeptide, consisting of as set forth in SEQ ID NO. 1.

2. (Previously Amended) The isolated or recombinant immunogenic polypeptide of claim 1 wherein said polypeptide elicits the production of antibodies against *Lawsonia spp.* when administered to an avian or porcine animal.

3. (Previously Amended) The isolated or recombinant immunogenic polypeptide of claim 1 which confers a protective immune response against *Lawsonia spp.* when administered to an avian or porcine animal.

4. (Previously Amended) The isolated or recombinant immunogenic polypeptide of claim 1 wherein the *Lawsonia spp.* is *L. intracellularis*.

Claims 5-20 (Cancelled)

21. (Currently Amended) A vaccine composition for the prophylaxis or

treatment of infection of an animal by *Lawsonia* spp., said vaccine composition comprising an effective amount of an immunogenic component comprising an isolated or recombinant *Lawsonia* spp. hemolysin polypeptide having ~~at least about 70% sequence identity to the amino acid sequence set forth in~~ consisting of SEQ ID NO: 1 ~~or at least about 50% sequence identity to amino acid residues 1 to 50 of SEQ ID NO: 1~~ and one or more carriers, diluents or adjuvants suitable for veterinary or pharmaceutical use.

Claim 22 (cancelled)

23. (Currently Amended) The vaccine composition according to claim 21 wherein the isolated or recombinant polypeptide ~~comprises the amino acid sequence set forth in SEQ ID NO: 1 or the amino acid sequence is~~ encoded by the hemolysin-encoding nucleotide sequence of pALK12 (ATCC 207195).

Claims 24-48 (cancelled)